VANCUROVA, L. MUDr., nositelka Radu prace: KLIMOVA-FUGNEROVA, MUDr. M.

Health education in the retrospect (1945-1960). Cesk. zdravot. 8 no.5:257-264 My '60.

1. Reditelka Ustredniho ustavu zdravotnicke osvety (for Vancurova). 2. Krajska osvetova, lekarska UNV - Praha (for Klimova-Fugnerova)
(HEALTH EDUCATION)

KLIMOVETS, YU. A.

Klimovets, Yu. A.

"The Morphology of the Upper Maxillary Sinuses." Kazakh State Medical Inst. imeni V. M. Molotov. Alma-Ata, 1955. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

BOGDANOVIC, J.; KLIMOVIC, A.

Composition of the humus in some alkali soils of Vojvodina.
Zemljiste biljka 12 no.1/3:191-194 Ja-D '63.

1. Jaroslav Cerni Institute of Development of Water Resources, Belgrade.

1. KLIMOVICH, A. F.

2. USSR (600)

4. Fisheries - Accounting

7. Organization of accounting for fishing equipment and its wearing out. Ryb. khoz. 28, no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

5(1,2,4) SOV/153-58-6-12/22

AUTHOR: Klimovich, A. I.

TITLE: Thermodynamic Calculation of the Reduction Reaction of Calcium Ortho-phosphate by Methane (Termodinamicheskiy raschet reaktsii vosstanovleniya ortofosfata kal'tsiya metanom)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 6, pp 71-78 (USSR)

ABSTRACT: For the purpose of obtaining elementary phosphorus from calcium phosphate coal is used practically exclusively as a reducing agent. Among the gases that can be taken into consideration in this connection methane seems to be the most interesting one (Refs 1-4). In order to estimate the chances of a reduction by gases the author dealt with the topic mentioned in the title. He based his work on the following preconditions: 1) The reaction does not occur below 1000°; 2) in the reduction a partial splitting of methane takes place and its products may participate in the reaction; 3) the end products can only be elementary phosphorus and phosphine. a) Reduction by methane. Calcium ortho-phosphate is reduced

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Thermodynamic Calculation of the Reduction Reaction of Calcium Orthophosphate by Methane

above 1000° (Refs 1, 2). Therefore, the thermal splitting of methane: $CH_4 \rightleftharpoons C + 2H$ (1) must be taken into account. This is why the reduction of $Ca_3(PO_4)_2$, not only by methane, but also by the other reagents mentioned, had to be calculated thermodynamically. Apart from the reaction products of reaction (1), CO and CO_2 may also be taken into consideration as reaction products, CO_2-formation being, however, little probable. Thus the author calculated only the reaction in which CO and elementary phosphorus are formed (reactions I-1-7, Table 1). The data obtained show that at 1500°K reaction I-4 is the only thermodynamically possible one. Furthermore, the temperature increase exerts a favorable effect on reactions I - 1, I - 3, and I - 6 as well. By means of this the isobaric potential is considerably lowered. Therefore only these reactions were calculated also in the presence of Si (I-8-11), and equations $\Delta Z = f(T)$ for them were derived. Table 2 shows the values ΔZ_T calculated from these equations

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Thermodynamic Calculation of the Reduction Reaction of Calcium Orthophosphate by Methane

at different temperatures. Reactions I-8 and I-11 are thermodynamically impossible. b) Similar calculations for the reduction with carbon (Table 3) showed the reduction of $Ca_3(PO_4)_2$ by carbon (graphite) in the presence of SiO_2 at $T > 1500^\circ K$ to be possible. This confirms the practically employed temperature of 1400-1500°C in electrothermal phosphorus production. c) From calculations (Table 4) it is obvious that the reduction by molecular hydrogen is impossible even in the presence of SiO_2 at a temperature of $< 1700^\circ K$. This proves the error of reference 3. d) On the reduction of phosphate by CO, only elementary phosphorus (P_2 or P_4), and, as an oxidation product of CO, only CO_2 can be formed. From table 5 it will be seen that a reduction of CO is completely impossible. CO is the only possible oxidation product of methane and of carbon. This leads to the conclusion that the statements made in references 13 and 14 are erroneous. e) Re-

Card 3/4

Thermodynamic Calculation of the Reduction Reaction of Calcium Orthophosphate by Methane

duction by active products of the thermal splitting of methane. Only reactions with atomic hydrogen and carbon were calculated (Table 6) from which it is obvious that the $Ca_3(PO_4)_2$ reduction by these elements at any given temperature must be a very intensive one. There are 6 tables and 15 references, 11 of which are Soviet.

ASSOCIATION: Kafedra obshchey i neorganicheskoy khimii; L'vovskiy politekhnicheskiy institut
(Chair of General and Inorganic Chemistry; L'vov Polytechnical Institute)

SUBMITTED: November 21, 1957

Card 4/4

KLIMOVICH, A. I., Candidate Chem Sci (diss) -- "The reduction of phosphates with natural methane". L'vov, 1959. 23 pp (Min Higher Educ Ukr SSR, L'vov Polytech Inst), 150 copies (KL, No 25, 1959, 128)

ABRAM P.Ya.; ALEKSANDROVA, G.I.; VOL'SKIY, V.S.; GORDON, Kh.I.; KLIMOVICH, A.I.; LIFSHITS, V.A.; FEDOTOV, F.G.[deceased]; AVKSENT'YEV, P.A.,[retsenzent]; ZAKHAROV, N.N.[retsenzent]; KOCHANOV, M.I.[retsenzent]; LEKSASHOV, P.P.[retsenzent]; NOVIKOV, V.F.[retsenzent]; SOKOLOV, M.V.[retsenzent]; SHESTOPAL, V.M.[retsenzent]; YAKOBSON, M.O.[retsenzent]; GAL'TSOV, A.D., red.; STRUZHESTRAKH, Ye.I., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va; POCHTAREVA, A.V., red. izd-va; TIKHANOV, A.Ya., tekhn. red.; MODEL', B.I., tekhn. red.

[Handbook for the establishment of norms in the machinery industry in 4 volumes]Spravochnik normirovshchika-mashinostroitelia v 4 tomakh. Moskva, Mashgiz, Vol. 4. [Engineering norms in auxiliary shops]Tekhnicheskoe normirovanie vo vspomogatel'nykh tsekhakh. 1962. 478 p. (MIRA 16:2)
(Machinery industry--Production standards)

BERKMAN, Ya.P.; KLIMOVICH, A.I.

Reduction of phosphates by natural methane. Dokl. LPI 5 no. 1/2: 130-133 '63. (MIRA 17:6)

BERKMAN, Ya.P.; KLIMOVICH, A.I.

Reduction of calcium orthophosphate by natural methane. Izv.vys. ucheb.zav.; khim.i khim.tekh. 7 no.6:953-957 '64.
(MIRA 18:5)

1. L'vovskiy politekhnicheskiy institut, kafedra obshchey i neorganicheskoy khimii.

KLIMOVICH, A.M.

Adequate optical chronaxy in disseminated sclerosis. Dokl. AN BSSR 8 no.4:273-275 Ap '64. (MIRA 17:6)

1. Institut fiziologii AN BSSR. Predstavleno akademikom AN BSSR D.A. Markovym.

KLIMOVICH, A.M.

Adequate optical chronaxia in vascular injuries of the brain. Vestsi AN BSSR. Ser. biial. nav. no.2:78-82 '64.
(MIRA 17:11)

KLIMOVICH, A.M.

Adequate optical chronaxie in epilepsy patients. Dokl. AN BSSR 8 no.6:414-417 Je '64. (MIRA 17:10)

1. Laboratoriya patofiziologii nervnoy sistemy Instituta fiziologii AN BSSR. Predstavleno akademikom AN BSSR [illegible].

KLIMOVICH, B. M. PA 46/49T36

USSR/Engineering Aug 48
Dehydrators
Fuel

"Nonfreezing-Type Water Separators," B. M. Klimovich, 1 p

"Za Ekonomiyu Topliva" Vol V, No 8

Diagram and operation of a thermal water separator with a dropping valve.

[redacted] 46/49T36

KLIMOVICH, B.M., insh.

Improving ESH-4/40 excavators. Stroi. i dor. mashinostr. no.4:5-7 Ap '58. (MIRA 11:4)

(Excavating machinery)

KLIMOVICH, B.M. (Angarsk)

Diaphragms for emergency ventilators. Vod. i san. tekh. no.6:30 Je '59.
(Factories--Heating and ventilation) (MIRA 12:8)

KLIMOVICH, D. I.

Diatr: 4F1

5

1509. Klimovich, D. I. A method of graphical analysis for determining the stresses in the constrained torsion of thin-walled bars (in Russian), Nauch. zap. [illegible] Lvov. [illegible] no. 2, 19-24, 1955; Ref. Zh. Mekh. no. 11, 1956, Rev. [illegible]

The solution is founded on applying the existing analogy between the differential equations of the torsional angles in gradual torsion and the differential equation of bending deflections of a bar bent in tension. The procedure of graphical analysis ultimately reduces to the construction of two rope polygons and subtraction of their ordinates after multiplying them by a specific coefficient.

E. I. Seltser

Courtesy Referativnyi Zhurnal USSR

Translation, courtesy Ministry of Supply, England

KLIMOVICH, F. F.

Luknashev, I. I. and Klimovich, F. F.- "Allergic diagnosis of brucellosis in pigs," Sbornik trudov Khar'k. vet in-ta, Vol. XIX, Issue 2, 1948, p. 278-82

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

KLIMOVICH, O.I.

24(0); 5(4); 6(2) PHASE I BOOK EXPLOITATION SOV/2215

Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I. Mendeleyeva

Referaty nauchno-issledovatel'skikh rabot; sbornik No. 2 (Scientific Research Abstracts; Collection of Articles, Nr 2) Moscow, Standartgiz, 1958. 139 p. 1,000 copies printed.

Additional Sponsoring Agency: USSR. Komitet standartov, mer i izmeritel'nykh priborov.

Ed.: S. V. Reshetina; Tech. Ed.: M. A. Kondrat'yeva.

PURPOSE: These reports are intended for scientists, researchers, and engineers engaged in developing standards, measures, and gages for the various industries.

COVERAGE: The volume contains 126 reports on standards of measurement and control. The reports were prepared by scientists of institutes of the Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR (Commission on Standards, Measures, and Measuring Instruments under the USSR Council of Ministers). The participating institutes are: VNIIM - Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D.I. Mendeleyev) in Leningrad; Sverdlovsk branch of this institute; VNIIK - Vsesoyuznyy nauchno-issledovatel'skiy institut Komiteta standartov, mer i izmeritel'nykh priborov (All-Union Scientific Research Institute of the Commission on Standards, Measures, and Measuring Instruments), created from MGIMIP - Moskovskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Moscow State Institute of Measures and Measuring Instruments) October 1, 1955; VNIIFTRI - Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy (All-Union Scientific Research Institute of Physicotechnical and Radio-engineering Measurements) in Moscow; KhGIMIP - Khar'kovskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Khar'kov State Institute of Measures and Measuring Instruments); and NGIMIP - Novosibirskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Novosibirsk State Institute of Measures and Measuring Instruments). No personalities are mentioned. There are no references.

Formula for a Platinum Resistance Thermometer in the Interval -183 - 0°C 72

Aliyeva, F.Z., B.N. Olenin, and N.I. Zaitsev (Deceased) (VNIIM). Producing and Studying the Triple Point of Water 73

Kondrat'yev, G.M., F.Z. Aliyeva, A.N. Gordov, O.I. Klimovich, Ya. P. Zal'berg, and A.A. Dolinskaya (VNIIM). International Comparison of Resistance Thermometers 73

Rudnaya, A.I. (Sverdlovsk Branch of VNIIM). Developing a Method and Studying the Apparatus for Calibrating and Checking Radiative Pyrometers in the 150-600°C Temperature Interval 74

Kantor, P.B., and Ye.S. Shpigel'man (KhGIMIP). Studying Errors in Reproducing the 700° -2000°C Interval of the International Scale of Temperatures and Improving the Accuracy of the Checking System 75

Finkel'shteyn, V. Ye., and Ye.S. Shpigel'man (KhGIMIP). Designing

Card 13/37

L 05197-67 EWT(m)/EWP(j) RM

ACC NR: AP6031064 SOURCE CODE: UR/0143/66/000/008/0022/0027

AUTHOR: Klimovich, G. S. (Engineer); Solov'yev, E. P. (Engineer)

37
B

ORG: Belorussian Politechnic Institute (Belorusskiy politekhnicheskiy institut)

TITLE: Investigation of the failure of some organic insulating materials exposed to surface particle discharges

SOURCE: IVUZ. Energetika, no. 8, 1966, 22-27

TOPIC TAGS: insulating material, filler, varnish, particle discharge, material failure

ABSTRACT: Samples of insulating materials have been tested on an outdoor stand. The analysis shows that the most resistant compound against surface failures is the epoxy compound with a quartz filler. The surface of the samples is readily washed off and the contamination is removed. The best results of testing materials based on procedures of the International Committee of Electrical Engineering were obtained with the varnish F-32L. The classification of materials by ICEE procedures does not fully reflect the behavior of materials under atmospheric conditions and high

Card 1/2 UDC: 621.315.616.9.015.533

L 05797-67
ACC NR: AP6031064

voltage since contamination is regarded as a factor increasing conductivity over the surface of the sample. Under natural conditions, contamination also affects the pattern of wetting and the behavior of particle discharges a factor which cannot be ignored with an increase in voltage. The paper was presented by the Department of High Voltage Technology on 4 December 1965. Orig. art. has: 3 figures and 3 tables. [Based on authors' abstract]

SUB CODE: 11/ SUBM DATE: 04Dec65/ ORIG REF: 001/ OTH REF: 001/

Card 2/2

VASIL'YEVSKIY, A.P.; KLIMOVICH, I.V.

Use of ethylmercuric chloride in floriculture. Biul.Glav.bot.sada no.27:89-94 '57. (MLRA 10:5)

1.Glavnyy botanicheskiy sad Akademii nauk SSSR.
(Ethylmercuric chloride)
(Floriculture)

KLIMOVICH, I.V.

Work practices in propagating plants by green cuttings. Biul. Glav. bot. sada no.31:111-112 '58. (MIRA 12:5)

1.Glavnyy botanicheskiy sad AN SSSR.
(Plant cuttings)

KLIMOVICH, P.V.

Several characteristics of the landform regionalization of the Volyn' Province portion of the Polesye. Geog. sbir. no.7: 6'-74 '63. (MIRA 17:12)

KLIMOVICH, P.V.

Landforms of the Volyn' lake region. Geog.sbor. L'vov.otd.Geog. ob-va SSSR no.8:28-35 '64. (MIRA 18:5)

KLIMOVICH, S., kapitan, komandir podrazdeleniya

Training is primary. Voen. znan. 43 no.9:6-7 S '65.

(MIRA 18:10)

VAYSBERG, D.Ye., kandidat meditsinskikh nauk (Moscow); KLIMOVICH, S.K. (Moscow); KOZHUKHOVA, V.K. (Moscow).

Acute sepsis caused by Streptococcus viridans. Klin.med. 31 no.12: 73 D '53. (MLRA 7:1)

1. Iz II terapevticheskogo otdeleniya i laboratorii TSentral'noy klinicheskoy bol'nitsy im. Semashko (nauchnyy rukovoditel' - zasluzhennyy deyatel' nauki professor I.A.Kassirskiy).
(Streptococcus) (Septicemia)

EXCERPTA MEDICA Sec 7 Vol 10/10 Pediatrics Oct 56

KLIMOVICH, S.K.

2161. ~~KLIMOVITCH S.K.~~ Late sequelae of epidemic hepatitis (Russian text) KLIN. MED. (Mosk.) 1955, 33/8 (33-38) Tables 1

In part of the patients mild residual symptoms remain such as slight bilirubinaemia, an enlarged liver and disturbed liver function tests. Most often they are found 2 months to one year after clinical cure and less often one to 5 yr. later. Liver dystrophy can take various courses from fulminant to subacute forms or proceed to cirrhosis. Prolonged forms of hepatitis which account for 8-10% of all cases can end in a complete cure or continue to deteriorate and end in cirrhosis. Thus of 20 personal patients 12 were cured, in 5 the further course was uncertain and 3 ended in cirrhosis. Recrudences amount in the personal material in adults to 5% and in children to 10% of all cases. Second attacks accounted for 12% in the personal material. The rule is that a grave acute attack, a prolonged or relapsing course of hepatitis more often leaves residual disturbances or more often ends in cirrhosis. Not in all cases of cirrhosis could an acute attack of hepatitis be elicited in their past histories: of 43 personal patients with cirrhosis only in 17 could an attack of hepatitis be found in their histories. Najman - Zagreb (XX, 6,7)

Therapeutic Clinic, Cent. Clinical Hospital in Semashko, Min. RR Transport.

KLIMOVICH, S.K.

Treatment of iron deficiency anemias with fercoven. Probl.gemat. i perel. krovi 1 no.3:26-28 My-Je '56. (MLRA 10:1)

1. Iz 2-go terapevticheskogo otdeleniya (nauchnyy rukovoditel' - prof. G.A.Alekseyev) TSentral'noy klinicheskoy bol'nitsy imeni Semashko Ministerstva putey soobshcheniya i III terapevticheskoy kliniki (zav. prof. I.A.Kassirskiy) TSentral'nogo instituta usovershenstvovaniya vrachey

(ANEMIA, HYPOCHROMIC, ther.
sucrose iron & gluconic acid cobalt salt prep.)
(COBALT, ther. use
gluconic acid cobalt & sucrose iron salt prep. in hypochromic anemia)
(CARBOHYDRATES, ther. use
same)
(SUCROSE, ther. use
sucrose iron & gluconic acid cobalt salt prep. in hypochromic anemia)
(IRON, ther. use
same)

KLIMOVICH, S. K., Cand Med Sci -- (diss) "Materials on the relative evaluation of the effectiveness of treatment of iron-deficiency anemia with various iron preparations." Moscow, 1960. 19 pp; (Ministry of Public Health USSR, Central Inst for the Advanced Training of Physicians); 250 copies; price not given; (KL, 27-60, 160)

PALIN, A.I.; LISITSKIY, R.M.; KHOLSHTEYN, R.Ya.; KLIMOVICH, T.P., otv. red.; SEMILETOVA, A.P., otv. red.; GEYSHTEYN, G.Ye., red.

[Handbook on prepared drugs] Spravochnik po gotovym lekarstvennym formam. Sost. A.I.Palin, R.M.Lisitskii, R.IA. Kholshtein. Otv. red. T.P.Klimovich, A.P.Semiletova. Riga, Glav. aptechnoe upr. M-va zdravookhraneniia Latviiskoi SSR, 1962. 390 p. (MIRA 16:11)
(Pharmacy--Handbooks, manuals, etc.)

SAKHAROV, I., nauchnyy sotrudnik; KLIMOVICH, V., nauchnyy sotrudnik

Growing weeping trees and shrubs. Zhil.-kom. khoz. 8 no.9: 23-25 '58. (MIRA 11:10)

1. Glavnyy botanicheskiy sad AN SSSR.
(Trees) (Shrubs)

KLIMOVICH, V.I.; SAKHAROV, I.M.

The pruning of woody plants. Gor.khoz.Mosk. 36 no.4:34-35 Ap '62. (MIRA 15:8)

1. Glavnyy botanicheskiy sad AN SSSR.
(Pruning)

KLIMOVICH, V.M.

Heat balance of the surface of ice during melting. Probl. Arkt. i Antarkt. no.12:85-90 '63. (MIRA 16:7)
(Yenisey Bay--Ice on rivers, lakes, etc.)

KLIMOVICH, V.M.

Penetration of solar radiation into the sea. Probl. Arkt. i Antarkt. no.13:105-108 '63. (MIRA 16:9)
(Yenisey Bay--Seawater--Optical properties)

FLIMOVICH, V. U.

"Mechanical Discharging in Layer Furnace s." Cand Tech Sci, Tomsk Order of Labor Red Banner Polytechnic Inst imeni S. M. Kirov, Min Culture USSR, Tomsk, 1953. (KL, No 11, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

ACC NR: AR0019263 SOURCE CODE: UR/0124/63/000/002/B134/B135

AUTHOR: Klimovich, V. U.

TITLE: Equation of state for rigid spheres

SOURCE: Ref. zh. Mekhan, Abs. 2B930

REF SOURCE: Nauchn. tr. Omskiy in-t inzh. zh.-d. transp., v. 48, 1964, 17-24

TOPIC TAGS: Van der Waals equation, equation of state, real gas, rarefied gas

TRANSLATION: Results of an experimental test of the equation of state for rigid spheres are given. The equation is in the form of a special case of the Van der Waals equation for a real gas when the forces of interaction between molecules are ignored. For the experiments a mechanical medium is used which consists of steel spheres (ball-bearings) in a metal chamber with tempered walls which made circular oscillatory motions causing movement of the spherical particles analogous to that of molecules in gases with densities approaching limiting values. Note is made of the unjustifiability of taking the overall number of possible pairs formed from N molecules as the actual number of collisions in deriving the Van der Waals equation for rarefied real gases. 9 references. V. A. Skripkin.

SUB CODE: 20

Card 1/1

SOV/124-57-4-4414

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 79 (USSR)

AUTHOR: Klimovich, V. U.

TITLE: Contribution to the Evaluation of the Heat Lost With the Carry-off in Grate-firing Furnaces (K otsenke teplovykh poter' s unosom v sloyevykh topkakh)

PERIODICAL: Sb. nauch. tr. Tomskiy elektromekhan. in-t inzh. zh.-d. transp., 1956, Vol 22, pp 35-54

ABSTRACT: Bibliographic entry

Card 1/1

SOV/124-57-4-4415

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 79 (USSR)

AUTHOR: Klimovich, V. U.

TITLE: Thermal and Engineering Aspects of the Carry-off in Furnaces (Teplotekhnicheskiye kharakteristiki unosa)

PERIODICAL: Sb. nauch. tr. Tomskiy elektromekhan. in-t inzh. zh.-d. transp., 1956, Vol 22, pp 55-75

ABSTRACT: Bibliographic entry

Card 1/1

KLIMOVICH, V.U. (Tomsk)

Regeneration of the tangential impulse in case of a nonslip impact. Izv.AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.2:125-127 Mr-Ap '62. (MIRA 15:5)

(Impact)

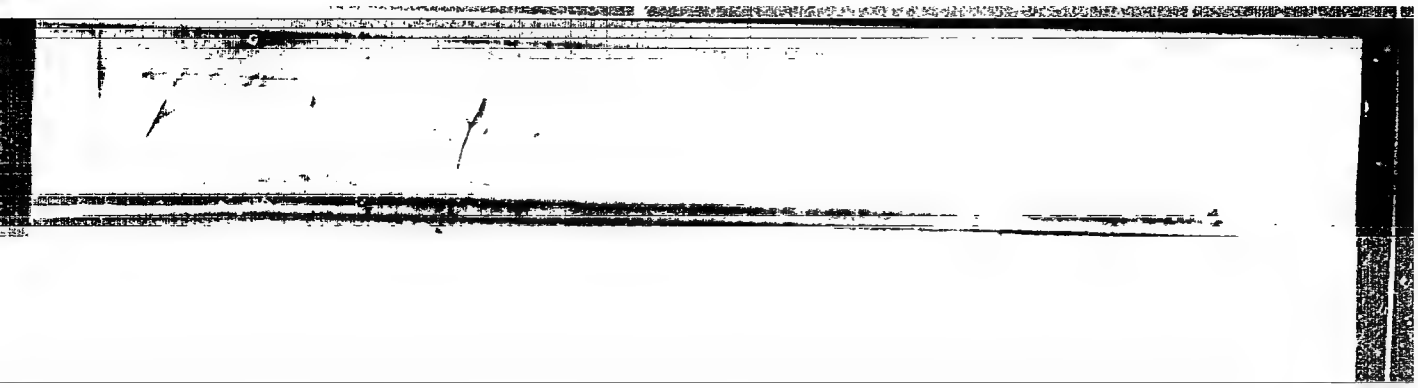
KLIMOVICH, V.U.

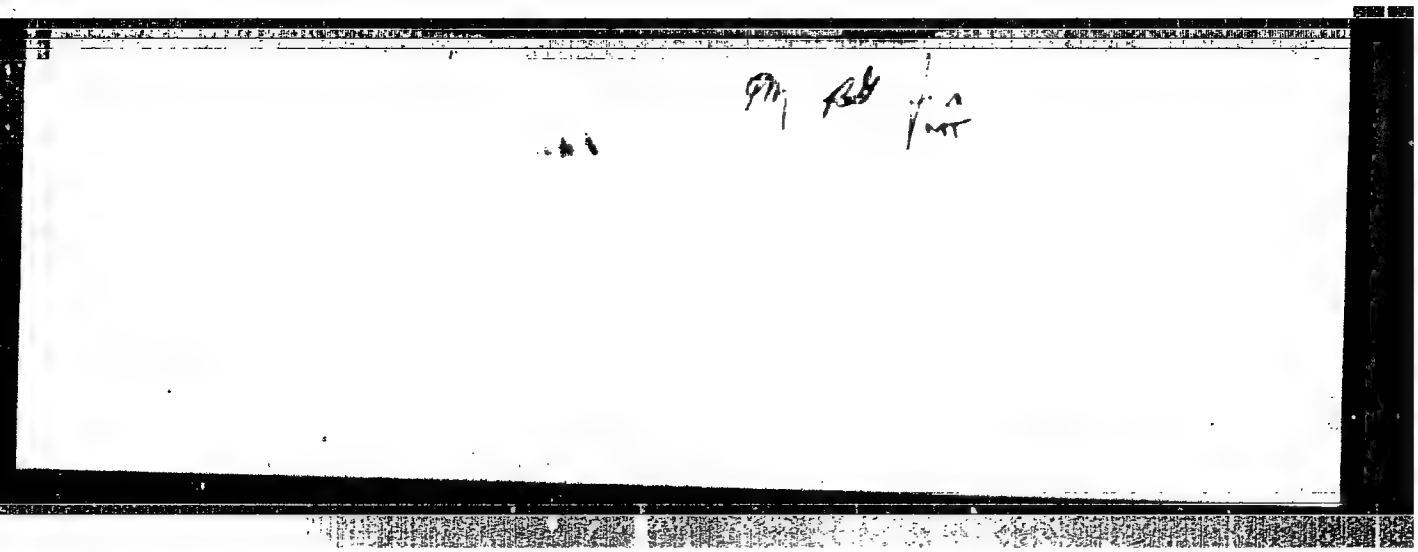
Basic principles of the performance of a vibration tube mill. Trudy GMIIT 38:27-46 '62.

Energy losses in the layer of milling bodies of a vibration tube mill. Ibid.:47-63

Characteristics of the work of the grinding layer in a vertical tube mill. Ibid.:65-72

(MIRA 18:8)





OSTAPENKO, Nikolay Nikolayevich; KIRILLOV, Nikolay Pavlovich; DANILEVSKIY, Vladimir Viktorovich; BEYZEL'MAN, R.D., nauchnyy red.; GURIN, A.V., red.; KLIMOVICH, Yu.G., red.; PERSON, M.N., tekhn.red.

[General technology of metals] Obshchaia tekhnologiia metallov. Izd.3., ispr. i dop. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960. 367 p. (MIRA 14:2)
(Metals) (Metalwork)

FAYERMAN, Aron Iudovich; FINKEL'SHTEYN, S.A., nauchnyy red.; KLIMOVICH, Yu.G., red.; DORODNOVA, L.A., tekhn. red.

[Economic aspects and organization of welding practices] Ekonomika i organizatsiia svarochnogo proizvodstva. Moskva, Vses. uchebno-pedagog. izd-vo Proftekhizdat, 1961. 94 p. (MIRA 15:3)

(Welding--Accounting) (Industrial organization)

DODIN, Yakov L'vovich; MARIYENBAKH, Lev Mikhaylovich, prof.;
SOKOLOVSKIY, Lev Osipovich; KLIMOVICH, Yu.G., red.;
PEREDERIY, S.P., tekhn. red.

[New developments in foundry techniques] Novoe v tekhnike liteinogo proizvodstva. Pod red. L.M.Marienbakha. Moskva, Vses. uchebno-pedagog. izd-vo Proftekhizdat, 1961. 231 p.
(MIRA 15:2)

(Founding)

KRASIVSKIY, Sergey Petrovich; SHKUNDROVICH, I.L., nauchnyy red.; KLIMOVICH, Yu.G., red.; TOKER, A.M., tekhn. red.

[Principles of automatic and remote control in industry] Osnovy avtomatizatsii i telemekhanizatsii proizvodstva. Moskva, Vses. uchebno-pedagog. izd-vo Proftekhizdat, 1961. 382 p. (MIRA 15:2)

(Automatic control) (Remote control)

KHASHKOVETS, Irshi[Haskovec, Jiri], inzh.; KOTEK, Zdenek, inzh.; MEL'TSER, R.Ye.[translator]; SINCHUK, B.I., nauchnyy red.; KLIMOVICH, Yu.G., red.; TOKER, A.M., tekhn. red.

[Small-scale automation] Malaia avtomatizatsiia. Moskva, Goskhimizdat, 1961. 197 p. Translated from the Czech. (MIRA 15:7)

(Automation)

SHAUMYAN, Grigor Arutyunovich; MAKAROV, L.L., nauchnyy red.; KLIMOVICH, Yu.G., red.; BARANOVA, N.N., tekhn. red.

[Program control of machine tools] Programmnoe upravlenie metallorezhushchimi stankami. Moskva, Profizdat, 1962. 174 p. (MIRA 15:7)

(Machine tools--Numerical control)

ASINOVSKAYA, Gnesya Abramovna; ZELIKOVSKAYA, Nataliya Mikhaylovna; KOROVIN, Andrey Ivanovich; KRAVETSKIY, G.A.; NEMKOVSKIY, I.A.; OFITSEROV, D.M.; TESMENITSKIY, D.I.; FISHKIS, M.M.; SHAPIRO, I.S.; GLIZMANENKO, D.L., kand. tekhn. nauk, red.; KLIMOVICH, Yu.G., red.; DORODNOVA, L.A., tekhn. red.

[Flame metalworking processes]Gazoplamennaia obrabotka metallov. [By] G.A.Asinovskaia i dr. Moskva, Proftekhizdat, 1962. 556 p. (MIRA 16:3)
(Gas welding and cutting) (Flame hardening) (Metal spraying)

KLIMOVICH, YU. L.

PA 240T96

USSR/Physics - Relativistic Mechanics

21 Dec 52

"Relativistic Equation for Quantum Fuction of Distribution," Yu. L. Klimovich, Moscow Aviation Technology Inst

"DAN SSSR" Vol 87, No 6, pp 927-930

Derives relativistic eq for quantum function of distribution, which allows one to express distribution of a system with infinite degrees of freedom. Presented by M. A. Leontovich 24 Oct 52.

240T96

IVANOVA, Ye.V.; KLIMOVITSKAYA, O.A.

Seed exchange activities of the Central Botanical Garden of the Academy of Sciences of the White Russian S.S.R. Bot.; issl. Bel. otd. VBO no.5:233-236 '63. (MIRA 17:5)

GUREVICH, I.S., insh.; MOROSHKIN, B.N., insh.; KLIMOVITSKAYA, R.M., insh.

Radio controlled switcher. Vest. TSNII MPS 19 no.8:60-61 '60.
(MIRA 13:12)

1. Kolomenskiy teplovozostroitel'nyy zavod im. V.V.Kuybyshava.
(France—Locomotives) (Remote control)

KLIMOVITSKAYA, S.A.; TSENTSIPER, Ya.I.

Multiple machining of parts at the Sumy Pump Plant. Mashinostroitel' no.1:43 Ja '65. (MIRA 18:3)

KLIMOVITSKAYA, T.V., OEGUZIN, Ya.Ye.

"The Applicability of the Magnetic Method of Determining the Quantiyt of the Residual Austenite in High-Carbon Steels," Uch. zap. KhGU, V. 48, Tr. Fiz. otd., No. 4, Kh. St. Univ. publication, 1953

GEGUZIN, YA. YE., AND KLIMOVITSKAYA, T. V.

Applicability of a Magnetic Method for Establishing the Residual Austenite Content in High Carbon Steel

Experimental test of applicability of a magnetic method to the determination of residual austenite in high-carbon steels was carried out. Measurement results were not uniform, pointing to the necessity of preliminary knowledge of carbon content in steel. (RZhFiz, No. 8, 1955) Uch. Zap. Kharkovsk. Unata. 49. 1953. Tr. Fiz. Otd. Fiz.-Matem. Fak., 4, 123-127

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

KLIMOVITS'KAYA Z.M.

Carbohydrate dynamics and protein accumulation as affected by nutrition system of plants in grass-beet crop rotation. Dop. AN URSR no.3:59-67 '49. (MLRA 9:9)

1.Institut fiziologii roslin i agrokhimii AN URSR. Predstaviv diysniy chlen AN URSR P.A.Vlasyuk.
(Botany--Physiology) (Grain) (Sugar beets) (Grasses)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.

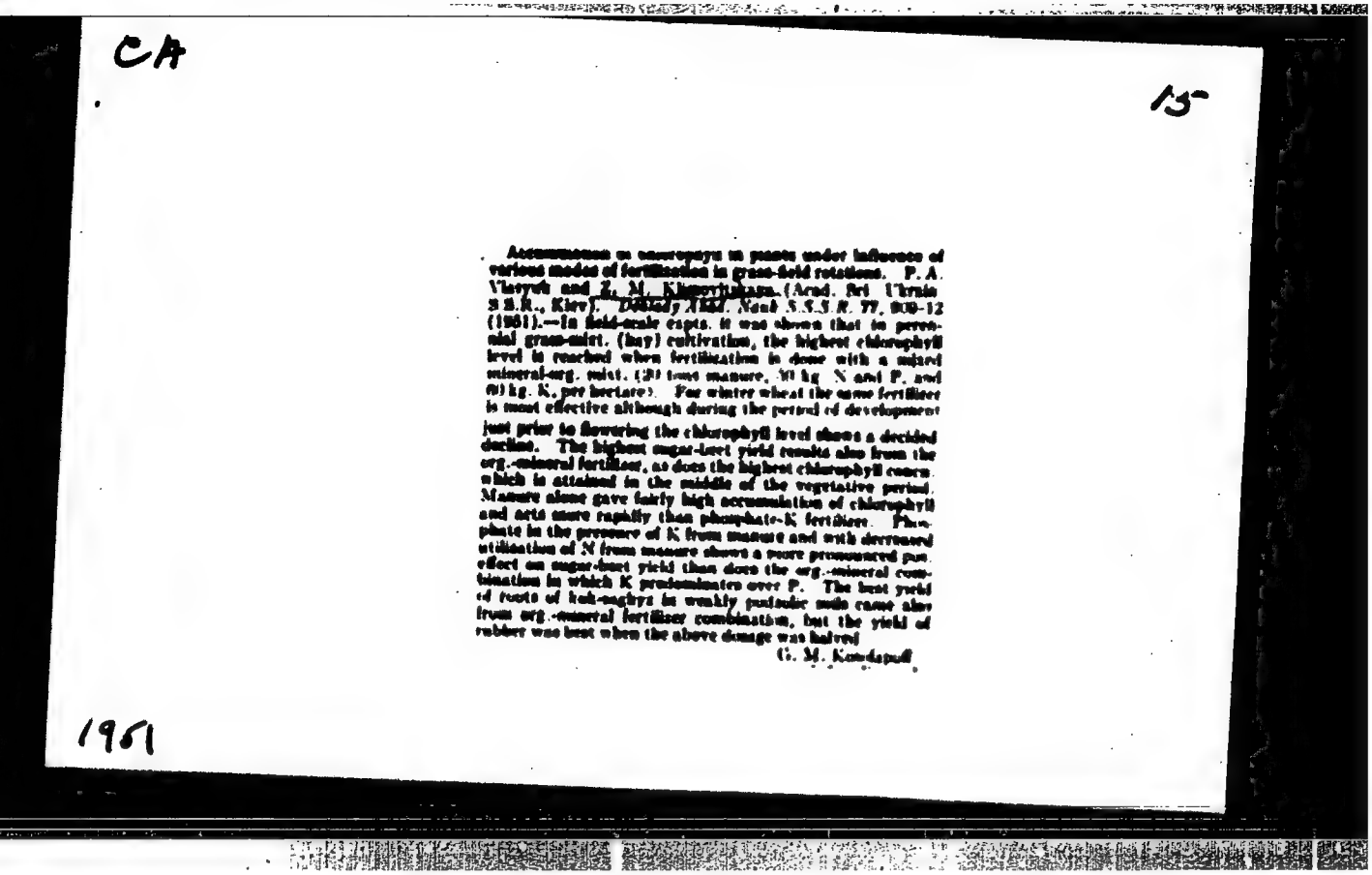
Effect of various types of potassium fertilizers on the synthesis of rubber and chemical composition of kok-saghyz. Nauk.zap.Kiev.un. 8 no.5:35-44 '49. (MLRA 9:10)

(Plants, Effect of potassium on) (Kok-saghyz)

C A

D

Dynamics of carbohydrates, nitrogenous matter and activity of enzymes in connection with dietary condition of plants of meadow beet rotation crops. P. A. Vlasyuk and Z. M. Klimovitskaya. *Izvest. Akad. Nauk S.S.S.R., Ser. Biol.* 1950, [illegible], 41-57.—Studies of rotation crops of wheat, buckwheat, and beets under field-scale conditions, with mineral, org., or mixed fertilizers, showed the best effect of the latter group (highest enzymic activity and largest crops). Max. monosaccharides are found in winter wheat leaves in early spring (tubulation stage), with a drop during flowering; protein content declines at the end of vegetation. In summer wheat the max. monosaccharides are found during sprouting, especially with mineral diet; during tubulation the monosaccharides decline in favor of sucrose; amylase could not be found; peroxidase is high until flowering (in winter wheat the max. activity is in January). Protein content rises in the leaves largely at tubulation and flowering stages. In the beet the monosaccharides are initially low in the leaves and their amt. rises with age along with appearance of sucrose. Beet amylase is low as is catalase; peroxidase activity is increased by mineral or org. diet. G. M. K.



CA

15

Accumulation of macroelements in plants under influence of various modes of fertilization in grass-field rotations. P. A. Vlasyuk and Z. M. Khaperskaya. (Acad. Sci. Ukrain. S.S.R., Kiev). *Doklady Akad. Nauk S.S.S.R.* 77, 809-12 (1951).—In field-scale expts. it was shown that in perennial grass-mixt. (hay) cultivation, the highest chlorophyll level is reached when fertilization is done with a mixed mineral-org. mixt. (30 tons manure, 90 kg. N and P, and 60 kg. K, per hectare). For winter wheat the same fertilizer is most effective although during the period of development just prior to flowering the chlorophyll level shows a decided decline. The highest sugar-beet yield results also from the org.-mineral fertilizer, as does the highest chlorophyll concn. which is attained in the middle of the vegetative period. Manure alone gave fairly high accumulation of chlorophyll and acts more rapidly than phosphate-K fertilizer. Phosphate in the presence of K from manure and with decreased utilization of N from manure shows a more pronounced pos. effect on sugar-beet yield than does the org.-mineral combination in which K predominates over P. The best yield of roots of kok-saghyz in weakly podzolic soils came also from org.-mineral fertilizer combination, but the yield of rubber was best when the above dosage was halved.

G. M. Kondrapoff

1951

1951

Activity of polyphenoloxidase in plants with different systems of fertilization. P. A. Vlasyuk and Z. M. Klimovitskaya. *Doklady Akad. Nauk S.S.S.R.* 77, 1107-9 (1951).—Four types of fertilizer application were used: control, in which 10 kg. N and K and 15 kg. P were introduced per ha. only into the rows; a mineral diet, in which the above was supplemented by general fertilization with 30 kg. N and P and 60 kg. K; org. type, in which 20 tons/ha. of manure was added besides the 1st treatment; and org.-mineral-type, in which 2nd and 3rd treatments were combined. Most tests were done with beb. engines and perennial grasses. The org.-mineral diet gave lowest polyphenoloxidase activity, but highest yield of plant product, in beet cultures. Other plants showed no change with diet. G. M. K.

VLASYUK, P.A., diysnyy chlen; KLIMOVYTS'KA, Z.M. KLIMOVITSKAYA, Z.M.

Agricultural and physiological characteristics of grass mixture components under plant nutrition systems in grassland crop rotation. Dop.AN URSR no.3: 213-218 '52. (MLRA 6:9)

1. Akademiya nauk Ukrayins'koyi RSR (for Vlasyuk). 2. Laboratoriya fiziolohiyi zhyvlennya roslyn Instytutu fiziolohiyi roslyn i ahrokhimiyi. (Grasses) (Rotation of crops)

[illegible], P. A., [illegible], Z. M.

Grasses

Influence of the system of nourishment on physiological particularities of the varieties in a mixed grass crop. Dokl. Ak. sel'khoz. No.5,1952
Institut Fiziologii Rasteniy i agrokhimii Akademii Nauk USSR rcd 12 Feb. 1952

SO: Monthly List of Russian Accessions, Library of Congress, August, 1952 [illegible], Uncl.

1. VLASYUK, P. A. and KLIMOVITSKAYA, Z. M.

2. USSR (600)

4. Potash

7. Effect of forms of potassium fertilizers on the formation of carbohydrates and the content of various forms of phosphor in cotton plant under irrigation. Dokl.AN SSSR 87 No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

Klimovitskaya, Z. M.

The influence of various forms of potassium fertilizers on the carbohydrate metabolism in plants under the conditions of crop rotation. P. A. Vlasyuk and Z. M. Klimovitskaya. *Dopovidi Akad. Nauk Ukr. R.S.R.* 1954, 87-[illegible] (Russian summary, 88).—The addn. of KCl to N + P fertilizer increased the winter-wheat crop by 12%, K_2SO_4 by 7.8%, and the addn. of both (half of each) by 13.1%. The chlorophyll also increased in all the stages on the addn. of K salts. In sugar beets the crop was increased by 10% with KCl, by 18.5% with K_2SO_4, and by 15% with both salts added. The leaves, on May 28, June 26, and July 26, had monose and sucrose, resp., with N + P alone (% on dry basis) 1.41, 1.42; 2.00, 0.84; 4.04, 0.86; KCl, 1.72, 1.18; 2.78, trace; 3.10, trace; K_2SO_4, 1.20, trace; 2.12, 0.77; 4.80, 1.78; both added, 1.61, 1.13; 1.26, 0.37; 5.76, 0.43. The roots, on May 28 and June 26, resp., with N + P alone, 1.23, 4.41; 0.36, 5.30; KCl, 1.26, 3.06; 0.72, 5.54; K_2SO_4, 1.14, 3.16; 0.30, 7.36; both added, 1.34, 3.08; 0.40, 7.88. There was a greater amt. of monose in the roots in the earlier stages than in the later, indicating its conversion to sucrose. In *[illegible]*, during flowering and harvest, resp., the amt. of monose and sucrose, resp., in the leaves, with N + P alone, 0.8, 2.34; 1.60, trace; KCl, 1.78, 2.00; 1.26, —; K_2SO_4, 2.30, trace; 1.14, 0.41; both added 1.28, 1.27; 1.80, 0.56. In the stems, N + P, 3.40, 1.80; 0.42, 1.78; KCl, 3.02, 1.70; 0.82, 1.00; K_2SO_4, 3.30, 1.36; 0.60, 1.44; both added, 3.30, 136; 0.60, 144. Total crop for the 4 fertilizers, resp., 16.4, 18.1, 20.2, 20.8.

D. G[illegible]

(1)

Inst. Plant Physiology & Agrochemistry, Acad Sci UkSSR

VLASIUK, P.A.; KOSMATIY, M.S.; KLIMOVITS'KA, Z.M.

Application of radioactive tracers in improving the system of plant nutrition conditions. Visnyk AN URSR 25 no.11:43-53 N '54. (MLRA 8:2)

(Plants--Nutrition)(Radioactive tracers)

Klimovitskaya, Z. M.

The significance of different forms of phosphates in plant nutrition. P. A. Vlasyuk, E. S. Kosmatyi, and Z. M. Klimovitskaya (Inst. Plant and Agrochem., Acad. Sci. Ukr. S.S.R., Kiev). *Fiziol. Rastenii, Akad. Nauk S.S.S.R.* 2, 384-7(1955).—Expts. with N-P-K plant diet contg. P^{32} in superphosphate, Ca pyrophosphate, or Ca orthophosphate were performed on sugar beet, wheat, and clover. Sugar beet and clover utilize the P content of superphosphate most intensely, pyrophosphate is utilized less well, and orthophosphate the least. P, regardless of its source, is localized more in the constitutional proteins than in protein reserves (storage proteins). In sugar-beet leaf in the 10-day plants (initial vegetative period) there are formed, in addition to inorg. P, glycerophosphate, glucose-1-phosphate, and fructose-1,6-diphosphate. At this age the roots show a considerable concn. of the inorg. P only. The best intake of P from superphosphate into sugar beet occurs when the fertilizer is introduced into the rows at planting. If the superphosphate is introduced some 5 cm. below the seeds the intake of P is considerably reduced. The meristematic young tissues of plants are richer in P than are the older tissues.

G. M. Kosolapoff

CH

2

3

[illegible]. Metabolism in clover plants studied with radioactive sulphur. P. A. Vlasiuk, E. S. Kosmatyi, and Z. M. Klimovitskaya [illegible]

[illegible] Khim., 1958, Abstr No 14897. It is shown that by introducing $Na_2{}^{35}SO_4$ and gypsum into the soil that S^{35} is rapidly absorbed by clover plants and participates in the synthesis of S-containing amino acids. S^{35} mainly appears in the roots, less in stems and leaves. By column chromatography it is demonstrated that S^{35} is incorporated into cystine and methionine by the third day and into protein by the sixth day, after introducing the $^{35}SO_4$ into the soil. It is assumed that conversion of SO_4 in plant tissues proceeds according to the scheme SO_4 → cystine [illegible] protein. (Russian)

[illegible]

USSR

[illegible] the phosphorus and protein metabolism in plants. P. A. Vlasyuk and Z. M. Klimovitskaya. *Doklady Vsesoyuz. Akad. Sel'skokhoz.* [illegible] 20, No. 1, 3-8 (1955).—A combination of KCl and K_2SO_4 was most effective on wheat. Cotton under irrigation and sugar beets without irrigation have responded best to [illegible] from [illegible] and [illegible] of K_2SO_4 and KCl. [illegible] and sugar beets with advance [illegible] show a decrease of phosphatides, [illegible] compounds, P [illegible] phosphates, and phytin. The nucleoprotein remain fairly const. throughout the growing cycle. K_2SO_4 has improved the quality of wheat by increasing the protein content (17.5 against 13.0% in the control). All fractions of P compds. were highest in the early stages of growth when KCl, KCl and K_2SO_4, and Mg-K sulfates were used. KCl and K_2SO_4 were conducive to formation of sucrose phosphates. Combinations of KCl and K_2SO_4 and K-Mg sulfates were conducive to rapid utilization of the sucrose phosphates. The P metabolism of cotton is characterized by a sharp decrease at the end of the growth period of mineral forms of P, phosphatides and especially nucleoproteins. An accumulation of nucleoproteins takes place during flowering when K_2SO_4 is added. J. S. Joffe

USSR

[illegible] Akad. Sel'skokhoz. [illegible] No. [illegible] (1955).—Drilling in K fertilizer for wheat showed that K-Mg salts alone and in combination with KCl proved to be effective. For sugar beets K_2SO_4 was [illegible]. All forms of K had a pos. influence [illegible] synthesis of glutathione during the period of [illegible] by wheat. Leaves of wheat had [illegible] when K_2SO_4 was used. Sugar beets during the [illegible] of growth had less glutathione and more at the end stages of growth when K_2SO_4 was used. KCl decreased oxidation capacity of the leaves of wheat in the early stages of growth and increased it in the later stages. In sugar beets, oxidation was lower in early stages when K_2SO_4 or kainite were used, whereas K-Mg salts increased it. Peroxidase activity increased in leaves of wheat when K was supplied as KCl and K_2SO_4. KCl and kainite decreased the activity of polyphenolase in sugar beets. KCl decreased respiration.

J. S. Joffe

The influence of root and foliar feeding of [illegible] phosphorus and calcium on the growth and [illegible] [illegible] [illegible] Doklady Vsesoyuz. Akad. Sel'skokhoz. Nauk im. V. I. Lenina 20, No. 6, 15-17(1955).—Supplying to 16 kg. soil 6-16 microcuries of radioisotope Ca has increased the wt. of the root and leaves by 21% and the sugar content by 0.3-0.8%. Radiophosphorus (in the form of Na_2HPO_4) applied to the foliage has increased the wt. of roots by 41%. All through the growing period there was more Ca in the leaves than in the roots.

J. S. Joffe

KLIMOVITSKAYA, Z. M.

Med ✓ Conditions for the entry of carbon into the plant from carbonates in the soil. P. A. Vlasyuk, E. S. Kosmatyi, and Z. M. Klimovitskaya. *Doklady Vsesoyuz. Akad. Sel'skokhoz. Nauk im. V. I. Lenina* 21, No. 4, 21-3(1956).—Pot expts. with sugar beets, clover, spring wheat, cabbage, and tomato transplants (seedlings), with meadow podzol soils, show that C from carbonates in the soil are utilized by plants in metabolizing it through the roots alongside with C from atm. CO_2. Radioactive C in Na_2CO_3 (50 microcurie/pot of 10 kg. of soil) mixed in the fertilizer was taken up by the plants if the soil had a pH of 8.4. J. S. Joffe

3

Lab. of Physiological Work of Nuclear Radiation on crops. Inst. of the Physiology of Crops and Agrochemicals, AS UkSSR

✓147

EFFECTS OF SMALL DOSES OF IONIZING RADIATIONS ON OXIDATION-REDUCTION PROCESSES IN PLANTS. P. A. Vlasyuk, Z. M. Klimovitskaya, and E. S. Kosmatii (Ukraine Inst. of Plant Physiology and Agrochemistry) [illegible]. Doklady Akad. Nauk [illegible] Feb. 1. (In [illegible]

3

Med

Tracer studies of radioactive Ca^{45} (5 to 10 μc per plant) effect on sugar beet yield and the effects of small doses of P^{32}, Ca^{45}, and S^{35} in the food supply of sugar beets and clover are tabulated and discussed. The studies established that in the early stages of growth of sugar beets the ionizing radiation increased the oxidation and lowered the reduction processes. Considerable increase of reduction processes over the oxidation which resulted in richer sugar beet yield were observed towards the end of the vegetative period.

Larger ionizing radiation doses in clover plants increased oxidation and suppressed the reduction process. In clover plants small doses of radioactive S^{35} have intensified the oxidation, the tissue redox-reducing properties, and the content of reducing forms of ascorbic acid. (R.V.J.)

*ACAD. Sci UKr SSR.

USSR/Plant Physiology - Mineral Nutrition. I.

Abs Jour : Ref Zhur - Biol., No 23, 1958, 104360

Author : Vlasyuk, P.A., Kosmatyy, Ye.S., and Klimovitskaya, Z.I.

Inst : Institute of Plant Physiology and Agrochemistry, AS Ukrainian SSR.

Title : The Effect of Nitrato-Ammoniacal, Nitrogenous and Manganous Nutrition on Sulfur Metabolism in the Sugar Beet.

Orig Pub : Fiziol. Rastenii, 4, No 5, 432-439, 1957.

Abstract : Under conditions of a soil culture and a NPK background, with respect to the sugar beet and wheat, it was established through introducing $Na_2S^{35}O_4$ (50 curies per 16 kg of soil) that, in contrast with P, more S enters into reserve proteins than into the constitutional proteins. Injection into the roots of the sugar beet of aqueous solutions of methionine or vitamin B_1 containing S^{35} caused

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USSR / Plant Physiology. Mineral Nutrition. I-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 43729

Author : Vlasyuk, P. A.; Kosmatyy, Ye. S.; Klimovitskaya, Z. M.
Inst : Kiev Institute of Plant Physiology, AS USSR Ukr SSR
Title : The Effect of Nitrate, Phosphorus, Potassium and Manganese Nutrients on Phosphorus Metabolism in the Sugar Beet.

Orig Pub : Izv. AN SSSR, Ser. biol., 1957, No. 5, 611-616

Abstract : A vegetative experiment (repeated five times) with the use of P^{32} made at the Kiev Institute of Plant Physiology, showed that in the sugar beet culture Mn both on a nitrate ground and a ground of ammonium nitrogen nutrient increased the speed of the metabolism of P with RNA and DNA, as well as the P fraction of "nucleic acids plus phosphoproteins". The P metabolism speed of phospholipids and mineral phosphates was reduced under the influence of Mn on an ammonium nutrient ground and increased on a nitrate one. The P metabolism rate at a low phosphorus nutrient level reached

Card 1/2

9

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.; VIZIR', K.L.

Manganese distribution in some cellular structures of plants. Izv.AN SSSR.Ser.biol. no.3:368-378 My-Je '59. (MIRA 12:9)

1. The Ukrainian Research Institute of Plant Physiology, Kiev.
(MANGANESE) (PLANTS--ASSIMILATION)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.

Manganese in different cellular structures of plants. Fiziol. rast. 6 no.5:560-567 S-O '59. (MIRA 13:2)

1.Ukrainian Scientific Research Institute of Plant Physiology, Kiyev.

(Plants, Effect of manganese on)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.; VIZIR, K.L.

Role of the root system in the translocation and transformation of manganese in plants. Izv.AN SSSR. Ser.biol. no.6:865-873 N-D '60.
(MIRA 13:11)

1. Academy of Agricultural Sciences of the Ukrainian S.S.R., Kiev.
(ROOTS (BOTANY))
(PLANTS, MOTION OF FLUIDS IN)
(MANGANESE)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.

Physiological role of manganese in plant life. Izv. AN SSSR. Ser. biol. 26 no.5:740-759 S-O '61. (MIRA 14:9)

1. Academy of Agricultural Sciences of the Ukrainian S.S.R., Kiyev.
(PLANTS, EFFECT OF MANGANESE ON)

VLASYUK, P.A.; KLIMOVITSKAYA, Z.M.; LENDENSKAYA, L.D.; NUDAKOVA, E.V.

Differential centrifugation of plant cell structures with regard to their microelement content. Izv. AN SSSR Ser. biol. 28 no.5:653-667 S-O'63 (MIRA 16:11)

1. Institute of Plant Physiology, Academy of Sciences of the Ukrainian S.S.R., Kiev.

PEYVE, Ya.V., akademik, otv. red.; VLASYUK, P.A., akademik, red.; SIROCHENKO, I.A., prof., red.; VOYNAR, A.I., prof., red.; MINORIK, A.V., kand. biol. nauk, red.; OSTROVSKAYA, L.K., doktor biol. nauk, red.; ZADERIY, I.I., doktor sel'khoz. nauk, red.; KURINNAYA, M.F., dots., red.; KLIMOVITSKAYA, Z.M., kand. biol. nauk, red.; MITSYK, V.Ye., kand. vet. nauk, red.; KAPITANCHUK, V.A., red.; RAD'KO, L.K., red.

[Trace elements in agriculture and medicine; materials] Mikroelementy v sel'skom khoziaistve i meditsine; materialy. Kiev, Gossel'khozizdat USSR, 1963. 689 p. (MIRA 18:1)

1. Vsesoyuznoye soveshchaniye po voprosam primeneniya mikroelementov v sel'skom khozyaystve i meditsine, 4th, Kiev, 1962. 2. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii rasteniy AN Ukr.SSR (for Ostrovskaya, Vlasyuk). 3. Institut biologii AN Latviyskoy SSR (for Peyve). 4. Kiyevskiy meditsinskiy institut (for Kurinnaya). 5. Donetskiy meditsinskiy institut im. A.M.Gor'kova (for Voynar). 6. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii i biokhimii sel'skokhozyaystvennykh zhivotnykh (for Mitsyk). 7. Belotserkovskiy sel'skokhozyaystvennyy institut (for Zaderiy).

VLASYUK, P.A., akademik, otv. red.; KOLOMIYTSEVA, M.G., prof., red.; KRUPSKIY, N.K., prof., red.; KLIMOVITSKAYA, Z.M., doktor biol. nauk, red.; KURENNAYA, M.P., kand. med. nauk, red.; MITSYK, V.Ye., kand. vet. nauk, red.; KAPITANCHUK, V.A., red.; RUDAKOVA, E.V., kand. biol. nauk, red.; SKUTSKAYA, N.P., red.

[Use of trace elements in agriculture; Republic interdepartmental collection of papers] Primenenie mikroelementov v sel'skom khoziaistve; Respublikanskii mezhvedomstvennyi sbornik. Kiev, Naukova dumka, 1965. 218 p. (MIRA 18:7)

1. Akademiya nauk URSR, Kiev. 2. Institut fiziologii rasteniy Ukr.SSR (for Vlasyuk, Rudakova).

MANORIK, A.V. [Manoryk, A.V.]; KLIMOVITSKAYA, Z.M. [Klimovyts'ka, Z.M.]

Petro Antypovych Vlasiuk: 1905, on his 60th birthday and the 40th anniversary of his scientific, pedagogical and civic activities. Ukr. bot. zhur. 22 no.3:107-111 '65. (MIRA 18:7)

SOV/127-59-3-12/22

14(5)

AUTHORS: Kryuchkov, V.V. and Klimovitskiy, A.M., Engineers

TITLE: Organizing the Central Control in the Kapital'naya Nr 2 Pit of the Degtyarka Mine. (Dispetcherizatsiya shakhty Kapital'naya Nr 2 Degt. arskogo rudnika.)

PERIODICAL: Gornyy zhurnal, 1959, Nr 3, pp 45-49 (USSR)

ABSTRACT: An experimental installation for central control was put into operation in the Kapital'naya Nr 2 pit of the Degtyarka Copper Mine, in 1958. All control and communication devices are concentrated on the dispatcher's panels. On the left panel are the registers of trolleys unloaded in the bunkers, and for the rocks evacuated on each pit level. A high-frequency broadcasting and enquiry station is also on the left panel. Cage and skip hoistings, as well as the level of ore in bunkers, are registered on the central panel. A video control device will also be installed on this panel. Devices for control of

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Organizing the Central Control in the Kapital'naya Nr 2 Pit of the Degtyarka Mine.

the insulation of electric lines, of pressure and expenditure of air and water are installed on the right panel. The APU abonents' installation for liaison with the pit management, and with the central telephone station, is also on the right panel. The functioning of these operations is described in detail. There are 2 diagrams and 3 photos and 3 Soviet references.

ASSOCIATION: Tsvetmetavtomatika, Moscow.

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Automatic regulation of thermal conditions in heat treating furnaces operated with liquid fuel. Priborostroenie no.1: 22-23 Ja '60. (MIRA 13:5)
(Furnaces, Heat treating)

KLIMOVITSKIY, M.D.; PRATUSEVICH, A.Ye.

Automatic control of heating furnaces in continuous thin-sheet mills. Metallurg 5 no.2:29-31 F '60.
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1. TSentral'noye proyektno-konstruktorskoye byuro Glavmontazha avtomatiki (for Klimovitskiy). 2. Magnitogorskiy metallurgicheskiy kombinat (for Pratusevich).
(Rolling mills) (Furnaces heating)
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28(1)

AUTHORS: Gozenbuk, L.G., Kopelovich, A.P., Klimovitskiy, M.D., and Mirov, B.M., Engineers

TITLE: Automatic Control of the Heating Furnaces in Rolling Mills

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960, Nr 4, pp 23-25 (USSR)

ABSTRACT: The Tsentral'noye proyektno-konstruktorskoye byuro (Central Project-Design Bureau) of Glavproyektmontazhavtomatika has developed a system (Fig 3) for controlling the heating conditions of ingots in continuous furnaces. The work was performed on Nr 3 continuous furnace in mill 1450 at Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine). This furnace heats slabs prior to rolling in the continuous sheet rolling mill. The area of

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the furnace floor is 135^2 and the length of the furnace 24.85 m. The welding and soaking zones are respectively heated by 9500 kilocalories per kilogram gas-mazout and 2,230 kilo calories per normal cubic meter gas. Air heating is performed in a ceramic recuperator. The Central Project-Design Bureau studied the following problems: determining the "pulse" which continuously characterizes the productivity of the furnace; determining the "pulse" in the mill, which characterizes the heat quality of metal in the furnace; determining the possibility of improving control of the combustion processes in the furnace zones; the rational choice of means of control according to the dynamic properties of the object. The two "pulses" selected were a) the relationship between temperature in the initial stage of the continuous zone and the productivity of the furnace (Fig 1) and b) the relationship between rolling temperature after the first

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finishing group stand and the heating charge of the upper and lower welding zones (Fig 2). The resultant control system is described in detail. There are 2 graphs and 1 diagram.

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E194/E155

AUTHORS: Kopelovich, A.P., Engineer, and
Klimovitskiy, M.D., Engineer

TITLE: The Dynamic Characteristics of Thermometric Elements

PERIODICAL: Teploenergetika, 1961, No.2, pp. 92-94

TEXT: The dynamic characteristics of a number of industrial temperature-sensitive elements were determined. The dynamic characteristics depend both on the method of measurement and on the design of the element (particularly the construction of the protective sheath) and also on the heat-exchange conditions to which the element is subjected. Tests were made with chromel-alumel and platinum-platinoid thermocouples, copper resistance thermometers, a gas manometer and a radiation pyrometer. The radiation pyrometer was tested by training it on nickel at a temperature of 1050 °C and removing a screen to start the test. The resistance manometers and manometric thermometer were tested by heating in boiling water and cooling in cold water or air. Tests were also made under industrial conditions. Other tests were made in metallurgical furnaces. The time constants and

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delay constants were determined from the tangents to the experimental curves, and numerical data for 18 variants of thermocouple design are tabulated. The values of time constant and delay obtained for thermocouples in laboratory furnace tests and with low gas-speeds in an industrial furnace are close to one another. Hence the sensitive element may be considered as a linear link and test results can be extended to other types of disturbance besides those given here.

There are 1 figure and 1 table.

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